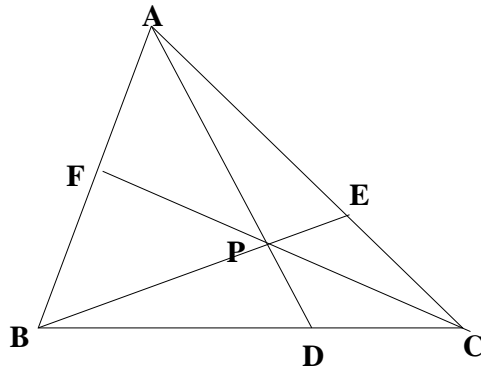


Tour 14 - Ceva's Theorem

Construct an arbitrary triangle ABC .



Pick points D , E , and F so that D is on BC , E is on AC , and F is on AB .

Ceva's Theorem states that line segments AD , BE , and CF are concurrent, i.e., they meet at a single point, if and only if

$$\frac{AF}{FB} \cdot \frac{BD}{DC} \cdot \frac{CE}{EA} = 1.$$

What an incredible result!