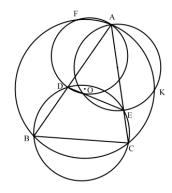
Example 197: As shown in Figure 1, in \triangle ABC, points D and E are on sides AB and AC respectively, so that \angle ADE = \angle ACB, the second intersection point between the circle whose diameter is AD and AE and the circumscribed circle of \triangle ABC They are F and K respectively. To prove: D, E, K and F share a circle.



$$\frac{F-K}{F-D} \frac{B-A}{D-E} \frac{K-E}{K-A} \frac{A-K}{K-C} \frac{F-A}{F-K} = 1$$

$$\frac{E-K}{D-E} \frac{C-B}{C-A} \frac{F-A}{F-D} \frac{B-A}{B-C} \frac{C-A}{C-K} = 1$$